

FIG. 1A

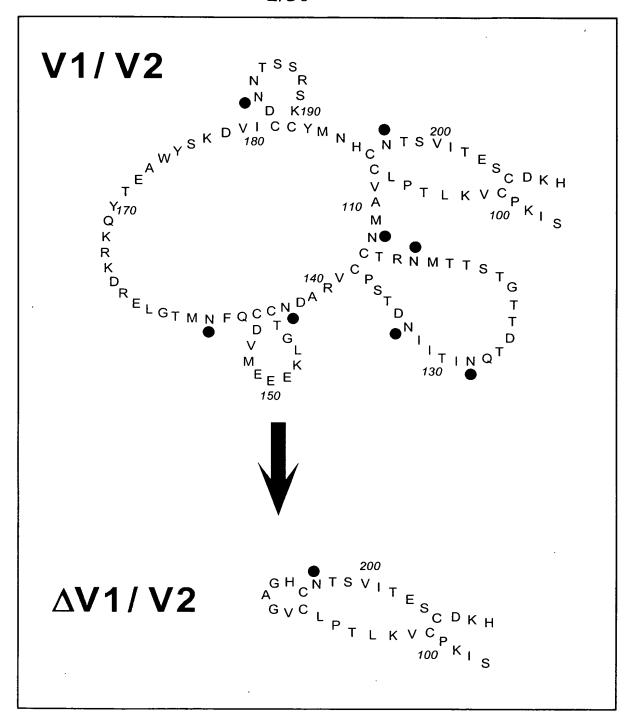


FIG. 1B

KWQGEFWCWAQRPKKNIVPKSH FYNLTMHCKRPGNK G A A A G R P K 340 V3(6,6) FYNLTMHCKG 290 LTMHCKG A GEFWCWG 330 340

FIG. 1C

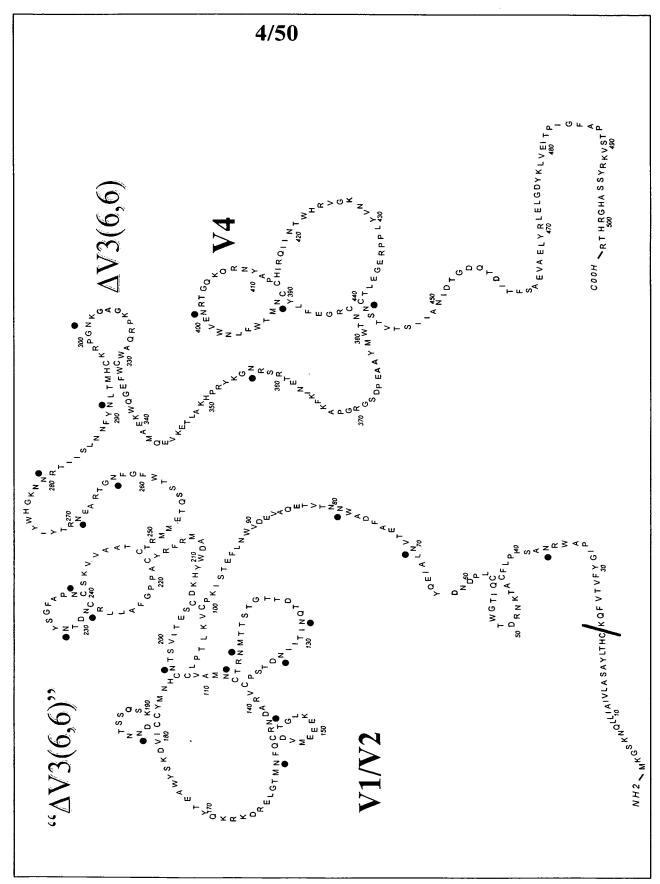


FIG. 1D

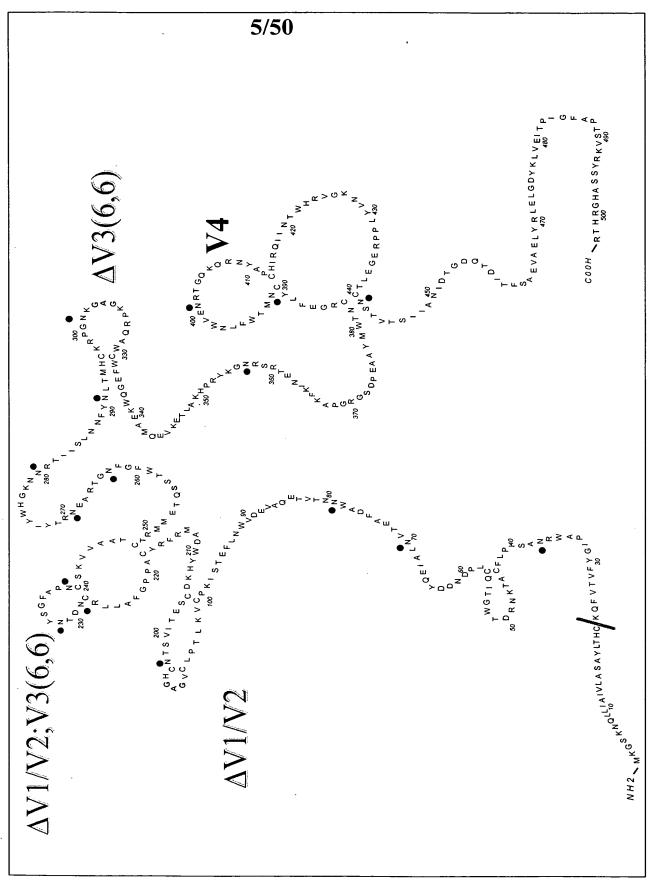


FIG. 1E

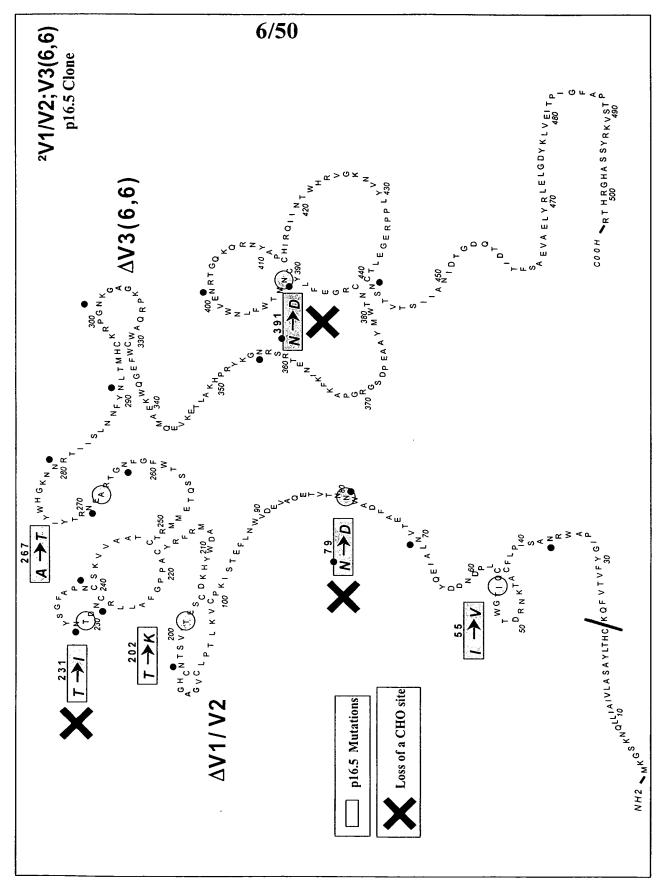


FIG. 1F

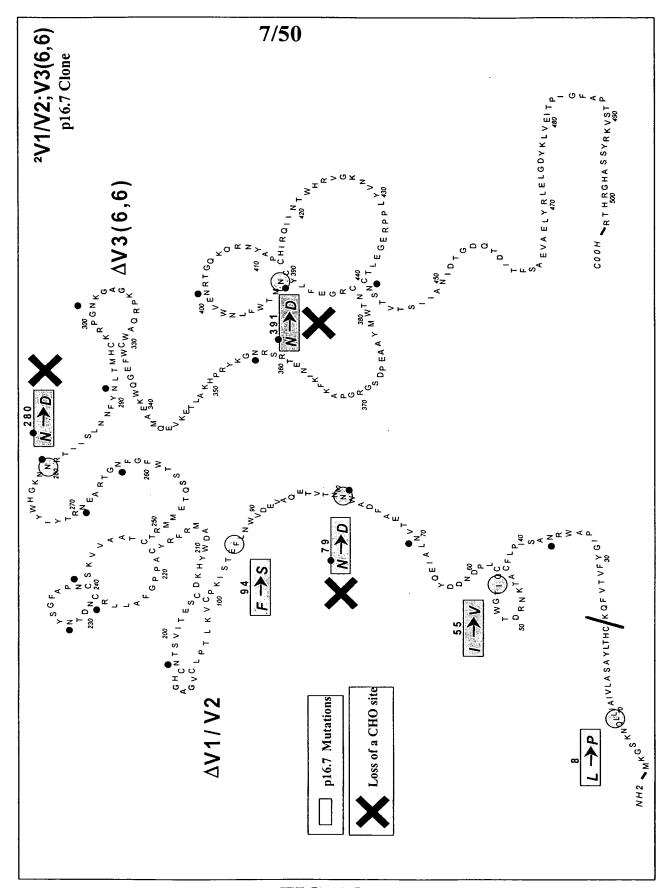


FIG. 1G

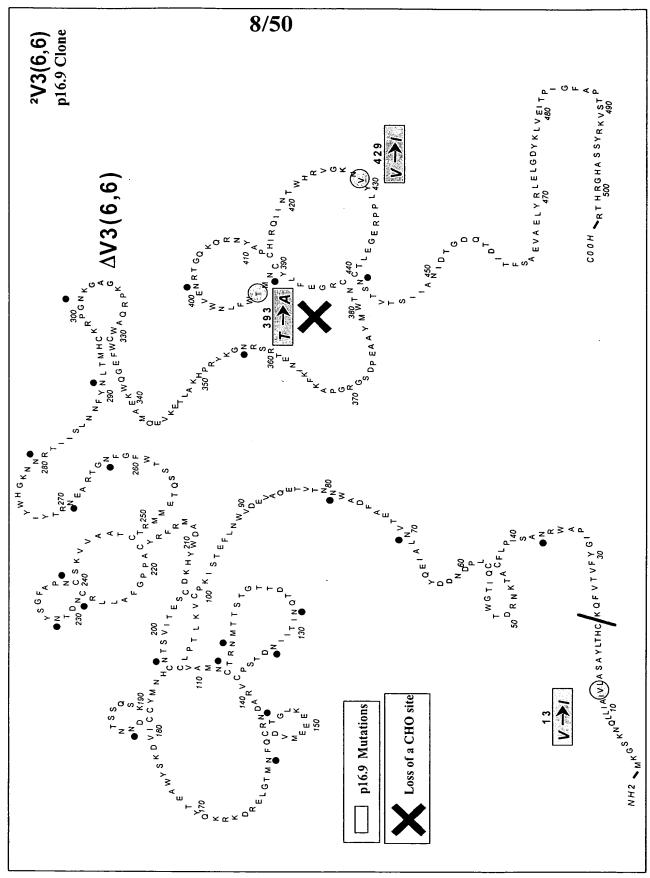


FIG. 1H

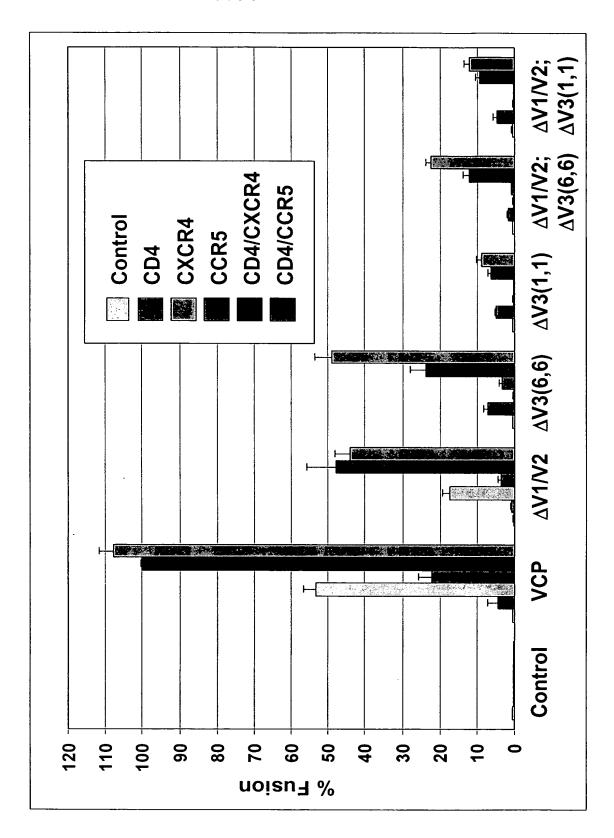


FIG. 2

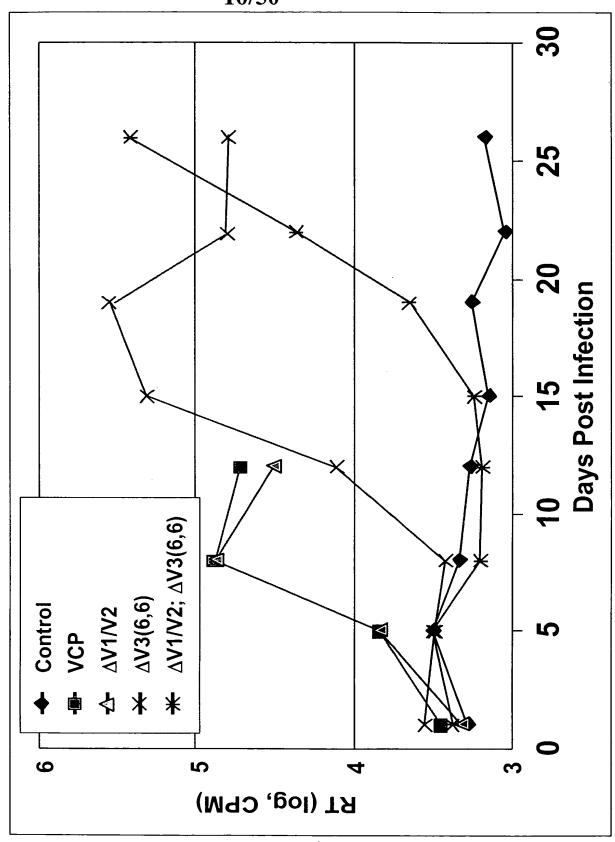


FIG. 3A

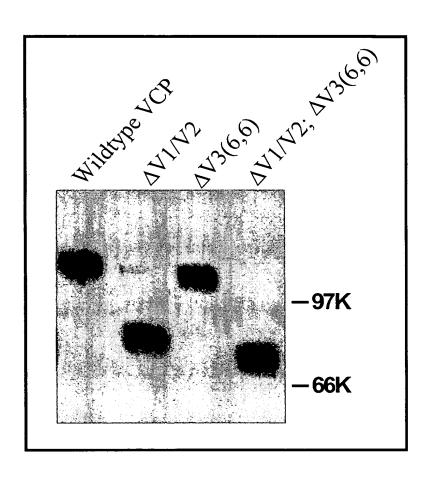


FIG. 3B

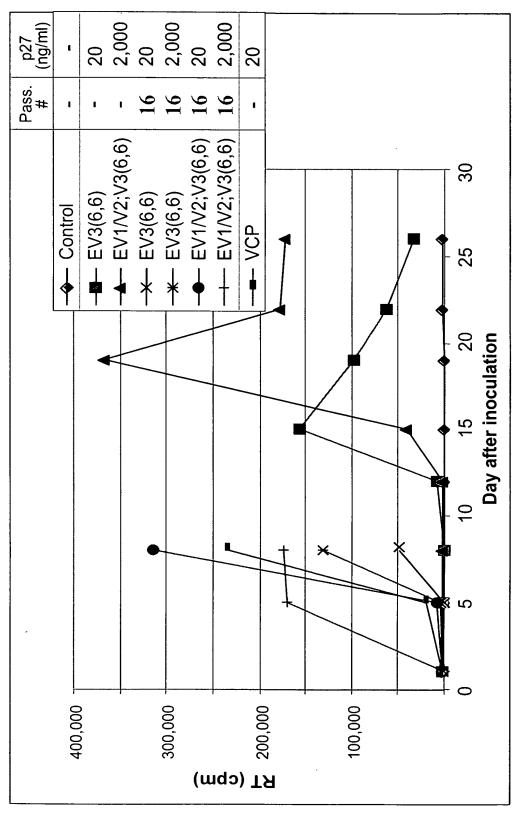


FIG. 4

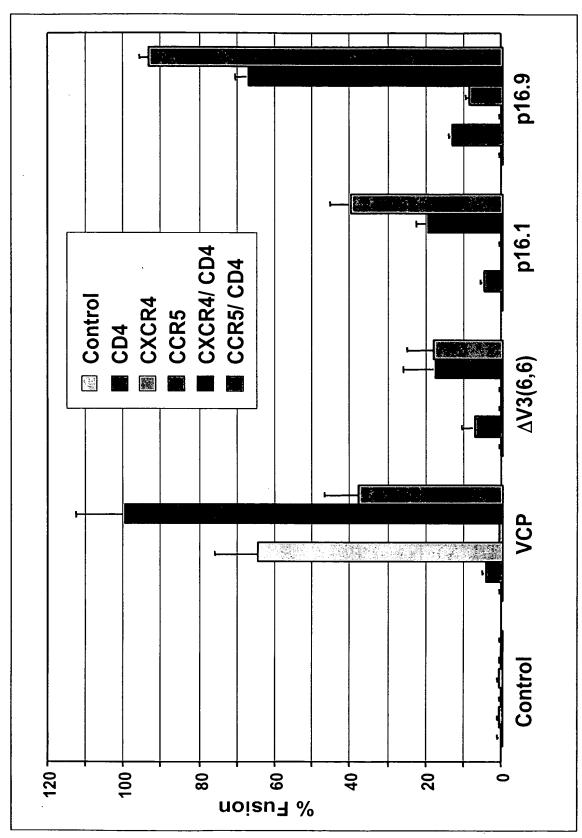


FIG. 5A

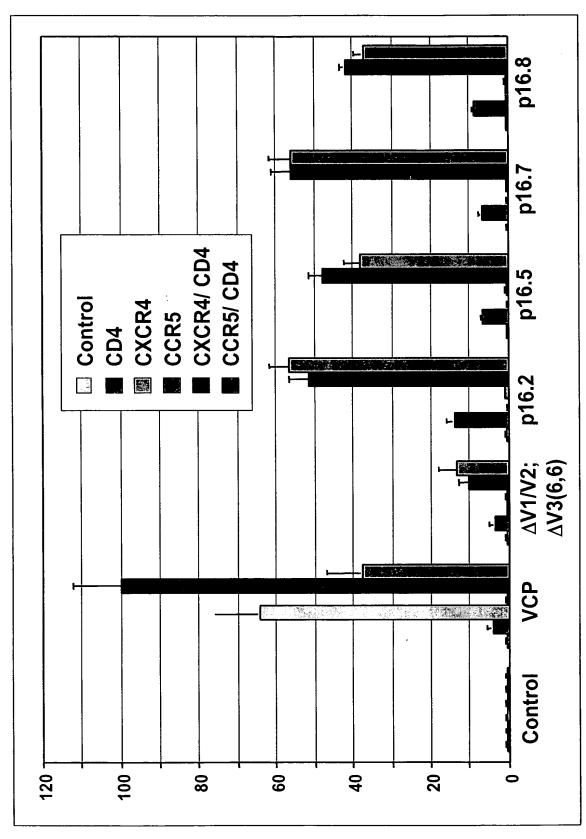


FIG. 5B

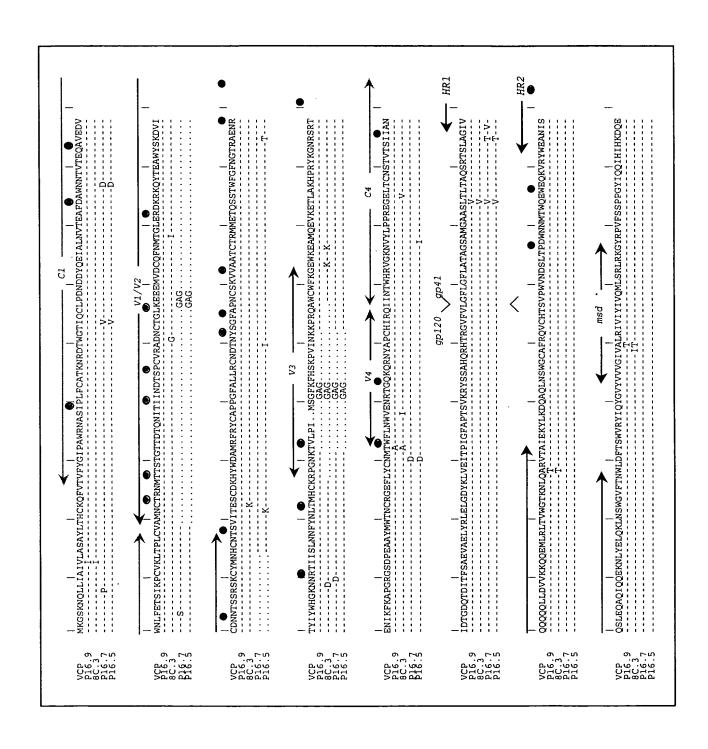


FIG. 6

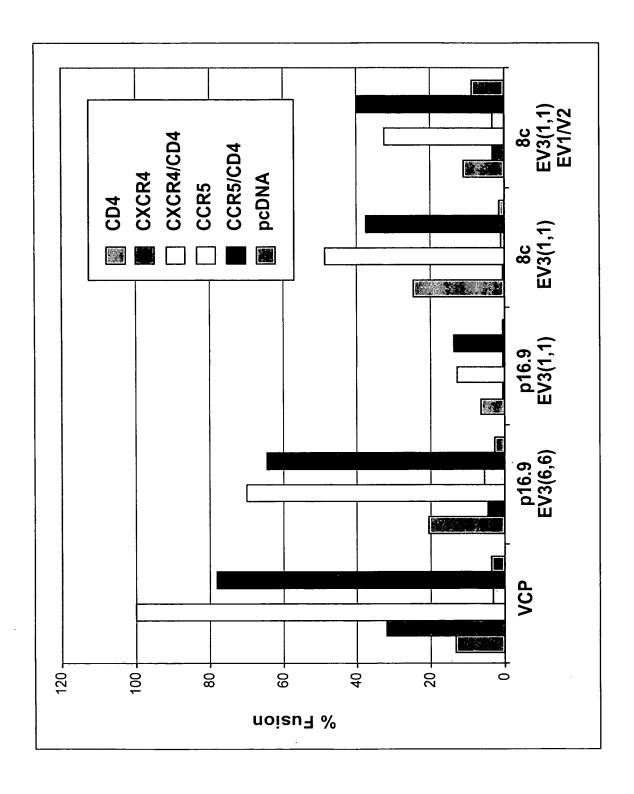


FIG. 7

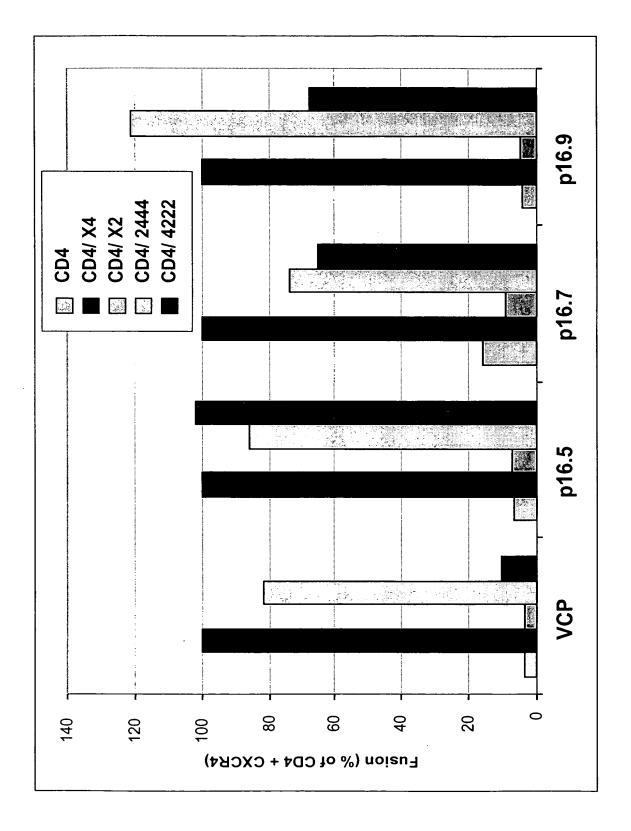
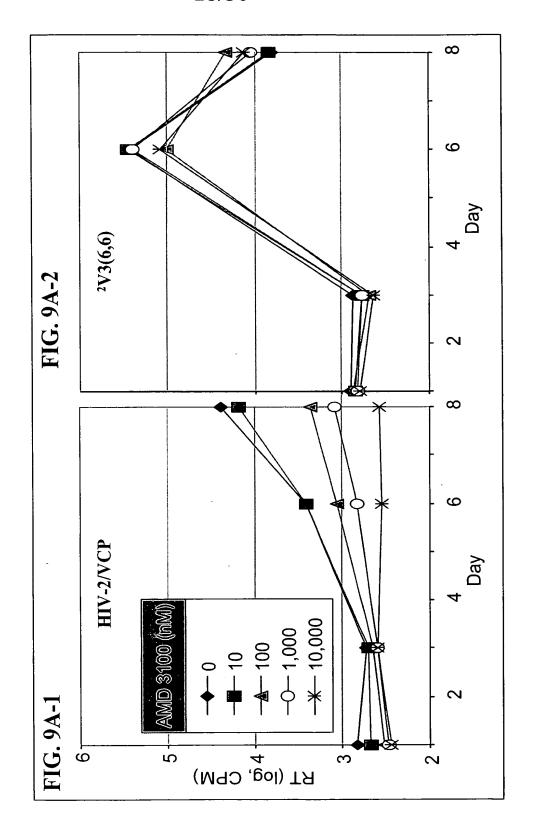
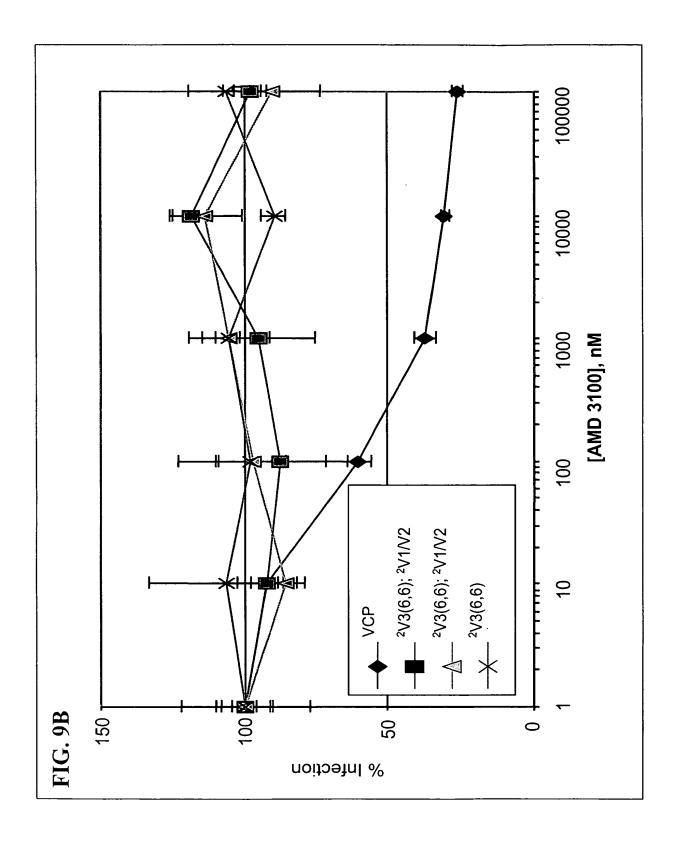


FIG. 8





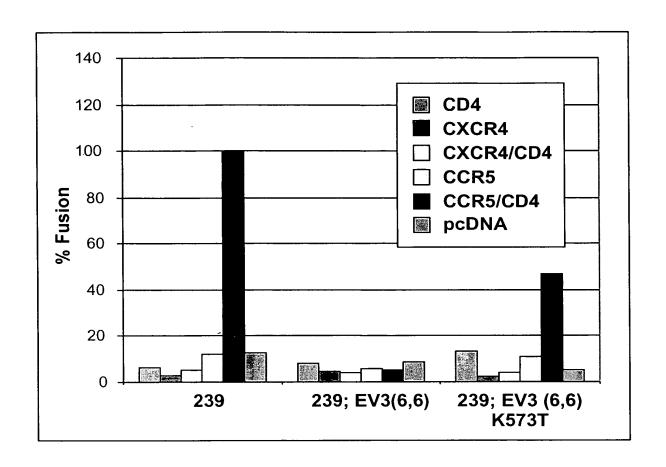


FIG. 10

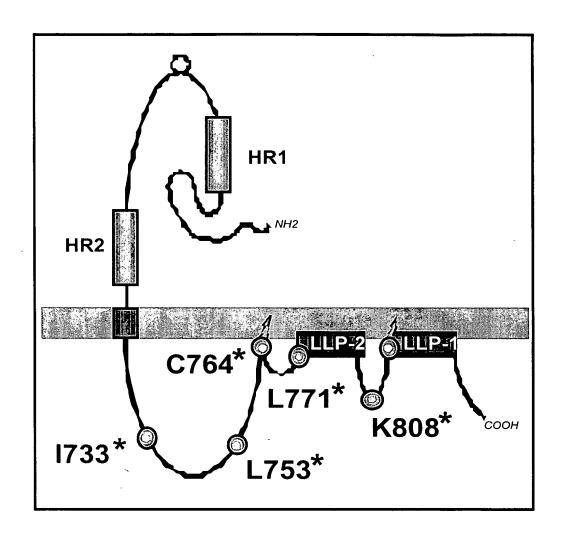


FIG. 11

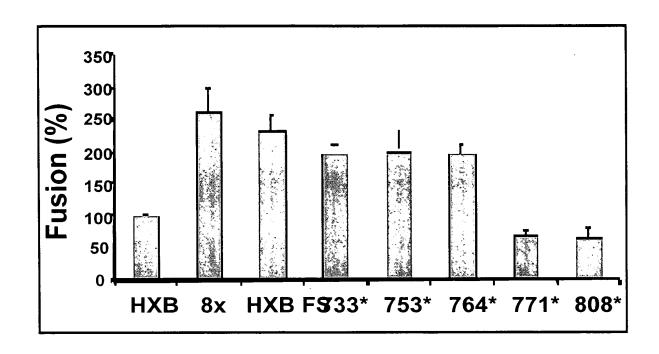


FIG. 12A

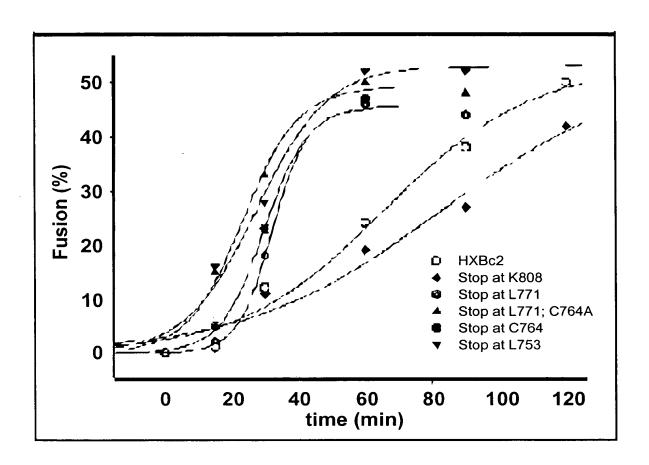


FIG. 12B

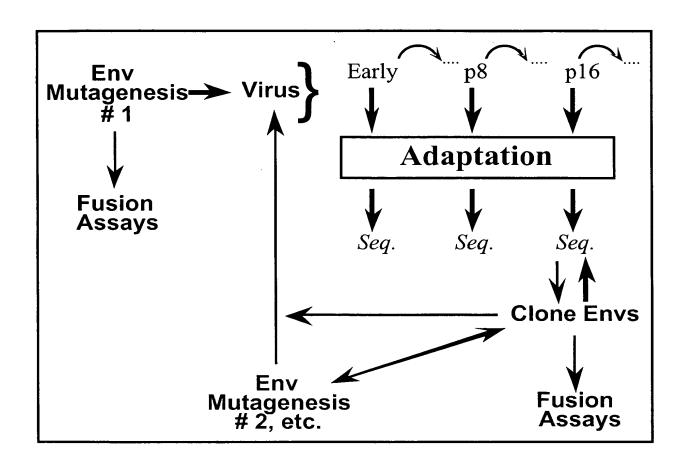


FIG. 13

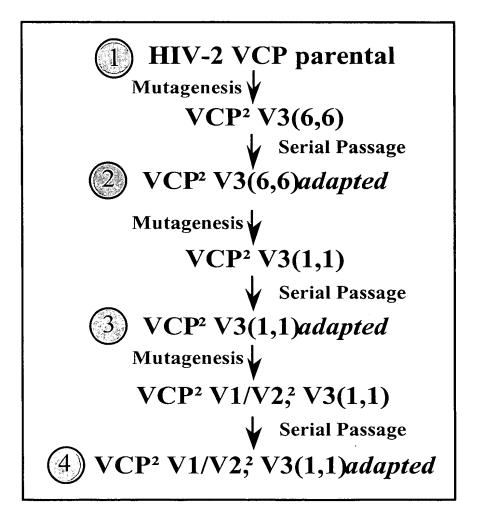


FIG. 14

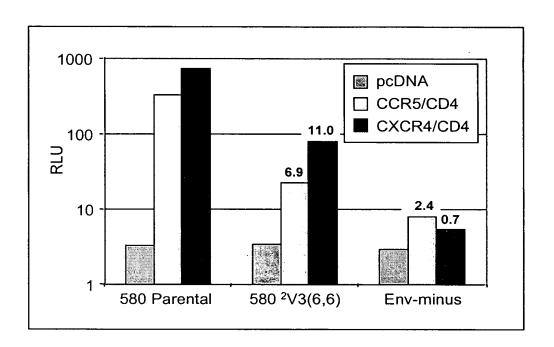


FIG. 15

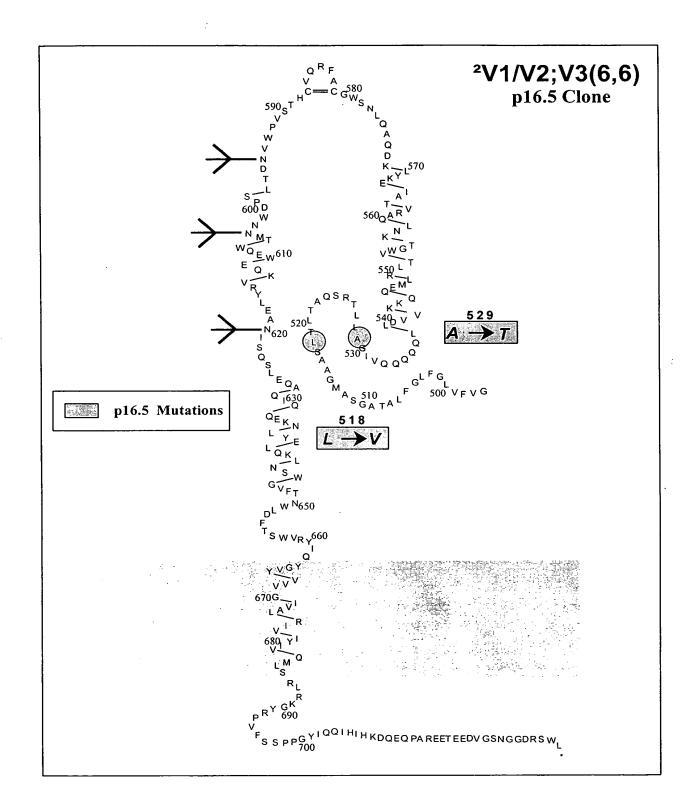


FIG. 16

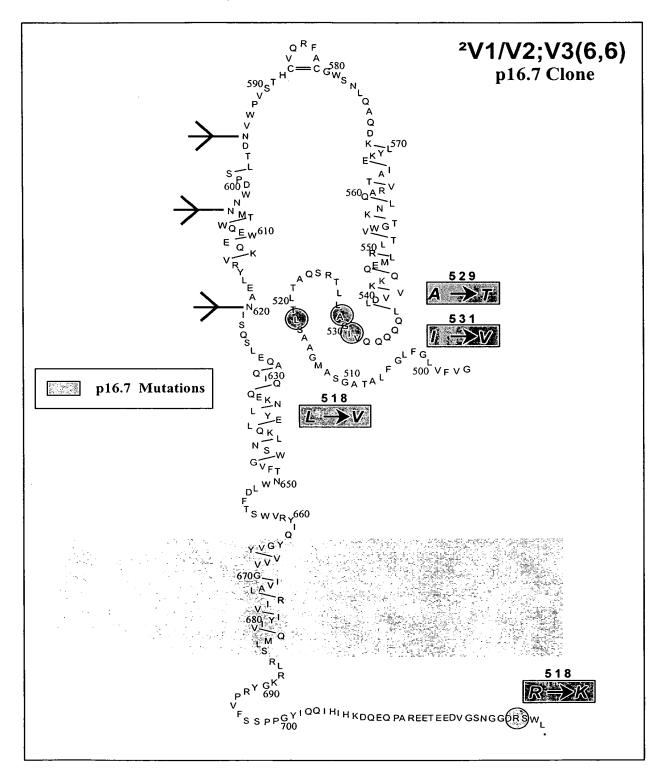


FIG. 17

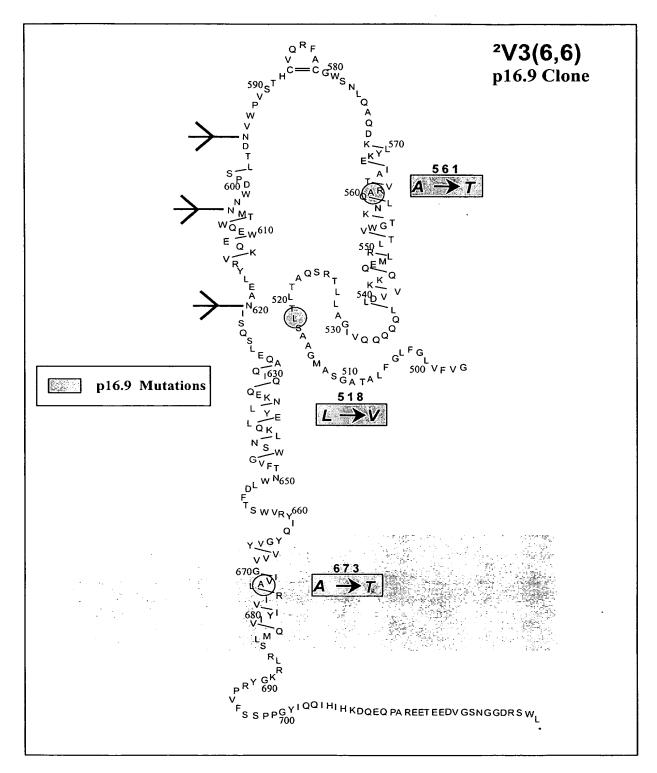


FIG. 18

FIG. 19A

MKGSKNQLLIAIILASAYLTHCKQFVTVFYGIPAWRNASIPLFCATKNRDTWGTIQCLPDND DYQEIALNVTEAFDAWNNTVTEQAVEDVWNLFETSIKPCVKLTPLCVAMNCTRNMTTSTGTT DTQNITIINDTSPCVRADNCTGLKEEEMVDCQFNMTGLERDKRKQYTGTWYSKDVICDNNTS SRSKCYMNHCNTSVITKSCDKHYWDAMRFRYCAPPGFALLRCNDTNYSGFAPNCSKVVAATC TRMMETQSSTWFGFNGTRAENRTYIYWHGKNNRTIISLNNFYNLTMHCKGAGWCWFKGEWKE AMQEVKETLAKHPRYKGNRSRTENIKFKAPGRGSDPEAAYMWTNCRGEFLYCNMAWFLNWVD NRTGRKQRNYAPCHIRQIINTWHRVGKNIYLPPREGELACNSTVTSIIANIDTGDQTDITFS AEVAELYRLELGDYKLVEITPIGFAPTSVKRYSSAHQRHTRGVFVLGFLGFLATAGSAMGAA SVTLTAQSRTSLAGIVQQQQLLDVVKKQQEMLRLTVWGTKNLQTRVTAIEKYLKDQAQLNS WGCAFRQVCHTSVPWVNDSLTPDWNNMTWQEWEQKVRYWEANISQSLEQAQIQQEKNLYELQ KLNSWGVFTNWLDFTSWVRYIQYGAYVVVGIVTLRIVIYIVQMLSRLRKGYRPVFSSPPGYIQQIHIHKDQEQPAREETEEDVGSNGGDRSWL

31/50

FIG. 19B

TTGCAAGCAATTTGTGACTGTTTTCTATGGCATACCCGCGTGGAGGAATGCATCCATTCCCC TGTTTTGTGCAACCAAAAATAGAGATACTTGGGGAACCATACAGTGCTTGCCAGACAATGAT GATTATCAGGAAATAGCTCTAAATGTAACAGAGGCTTTCGATGCATGGAATAATACAGTAAC AGAACAAGCAGTGGAGGATGTCTGGAATCTATTTGAGACATCAATAAAACCATGTGTCAAAT TAACACCCTTATGTGTAGCAATGAACTGTACAAGGAACATGACCACATCCACAGGGACCACA GACACCCAAAATATCACAATTATAAATGACACTTCGCCATGCGTACGTGCAGACAACTGCAC AGAGAAAACAGTATACTGGAACATGGTACTCAAAAGATGTGATTTGTGACAATAACACCTCA AGTCGGAGCAAGTGTTACATGAACCATTGCAATACATCAGTCATCACAAAGTCATGTGATAA GCACTATTGGGATGCTATGAGGTTTAGATACTGTGCACCACCGGGTTTTGCCCTACTAAGAT GCAATGATACTAATTATTCAGGCTTTGCACCTAATTGCTCTAAAGTAGTAGCTGCTACATGC ACCAGAATGATGGAAACGCAATCTTCTACATGGTTTGGATTTAATGGCACTAGAGCAGAAAA TAGAACATATATATTGGCATGGTAAAAATAACAGAACTATTATCAGCTTAAATAACTTTT GCCATGCAGGAGGTGAAGGAGACCCTTGCGAAACATCCCAGATATAAAGGGAACAGGAGCCG CACAGAGAATATTAAATTTAAAGCACCAGGAAGAGGCTCAGACCCAGAAGCAGCATACATGT GGACTAACTGCAGAGGGGAATTTCTCTACTGCAACATGGCTTGGTTCCTCAACTGGGTAGAT TTGGCACAGGGTAGGGAAAAACATATATTTGCCTCCCAGGGAAGGGGAGTTGGCCTGCAACT CAACAGTGACCAGCATAATTGCCAACATTGATACGGGAGATCAAACAGATATTACCTTTAGT GCAGAGGTGGCAGAACTATACCGATTGGAATTGGGAGATTACAAATTAGTAGAAATCACACC AATTGGCTTCGCACCTACATCAGTAAAGAGATACTCCTCTGCTCACCAGAGACATACAAGAG GTGTGTTCGTGCTAGGGTTCTTGGGTTTTCTCGCAACGGCAGGTTCTGCAATGGGCGCGGCG TCGGTGACGCTGACCGCCCAGTCCCGGACTTCATTGGCTGGGATAGTGCAGCAACAGCAACA GCTGTTGGACGTGGTCAAGAAACAACAAGAAATGTTGCGACTGACCGTCTGGGGAACTAAAA ATCTCCAGACAAGAGTCACTGCTATAGAGAAATACCTAAAGGACCAGGCGCAGTTAAATTCA TGGGGATGTGCGTTTAGACAAGTCTGCCACACTTCTGTACCATGGGTAAATGATAGCTTGAC ACCTGATTGGAACAATATGACGTGGCAGGAATGGGAACAGAAAGTCCGCTACTGGGAGGCAA ATATCAGTCAAAGTCTAGAACAAGCACAAATTCAGCAAGAAAAGAATTTGTATGAGCTGCAA AAATTAAATAGCTGGGGTGTTTTTACCAATTGGCTTGACTTCACCTCCTGGGTCAGGTATAT TGGAAGCAACGGTGGAGACAGATCTTGGCTTTAG

FIG. 19C

MKGSKNQLLIAIILASAYLTHCKQFVTVFYGIPAWRNASIPLFCATKNRDTWGTIQCLPDND DYQEIALNVTEAFDAWNNTVTEQAVEDVWNLFETSIKPCVKLTPLCVAMNCTRNMTTSTGTT DTQNITIINDTSPCVRADNCTGLKEEEMVDCQFNMTGLERDKRKQYTGTWYSKDVICDNNTS SRSKCYMNHCNTSVITKSCDKHYWDAMRFRYCAPPGFALLRCNDTNYSGFAPNCSKVVAATC TRMMETQSSTWFGFNGTRAENRTYIYWHGKNNRTIISLNNFYNLTMHCKGAGWCWFKGEWKE AMQEVKETLAKHPRYKGNRSRTENIKFKAPGRGSDPEAAYMWTNCRGEFLYCNMAWFLNWVD NRTGRKQRNYAPCHIRQIINTWHRVGKNIYLPPREGELACNSTVTSIIANIDTGDQTDITFS AEVAELYRLELGDYKLVEITPIGFAPTSVKRYSSAHQRHTR

FIG. 19D

TTGCAAGCAATTTGTGACTGTTTTCTATGGCATACCCGCGTGGAGGAATGCATCCATTCCCC TGTTTTGTGCAACCAAAATAGAGATACTTGGGGAACCATACAGTGCTTGCCAGACAATGAT GATTATCAGGAAATAGCTCTAAATGTAACAGAGGCTTTCGATGCATGGAATAATACAGTAAC AGAACAAGCAGTGGAGGATGTCTGGAATCTATTTGAGACATCAATAAAACCATGTGTCAAAT TAACACCCTTATGTGTAGCAATGAACTGTACAAGGAACATGACCACATCCACAGGGACCACA GACACCCAAAATATCACAATTATAAATGACACTTCGCCATGCGTACGTGCAGACAACTGCAC AGAGAAAACAGTATACTGGAACATGGTACTCAAAAGATGTGATTTGTGACAATAACACCTCA AGTCGGAGCAAGTGTTACATGAACCATTGCAATACATCAGTCATCACAAAGTCATGATAA GCACTATTGGGATGCTATGAGGTTTAGATACTGTGCACCACCGGGTTTTGCCCTACTAAGAT GCAATGATACTAATTATTCAGGCTTTGCACCTAATTGCTCTAAAGTAGTAGCTGCTACATGC ACCAGAATGATGGAAACGCAATCTTCTACATGGTTTGGATTTAATGGCACTAGAGCAGAAAA TAGAACATATATATATTGGCATGGTAAAAATAACAGAACTATTATCAGCTTAAATAACTTTT GCCATGCAGGAGGTGAAGGAGACCCTTGCGAAACATCCCAGATATAAAGGGAACAGGAGCCG CACAGAGAATATTAAATTTAAAGCACCAGGAAGAGGCTCAGACCCAGAAGCAGCATACATGT GGACTAACTGCAGAGGGGAATTTCTCTACTGCAACATGGCTTGGTTCCTCAACTGGGTAGAT TTGGCACAGGGTAGGGAAAAACATATATTTGCCTCCCAGGGAAGGGGAGTTGGCCTGCAACT CAACAGTGACCAGCATAATTGCCAACATTGATACGGGAGATCAAACAGATATTACCTTTAGT GCAGAGGTGGCAGAACTATACCGATTGGAATTGGGAGATTACAAATTAGTAGAAATCACACC AATTGGCTTCGCACCTACATCAGTAAAGAGATACTCCTCTGCTCACCAGAGACATACAAGA

FIG. 19E

GVFVLGFLGFLATAGSAMGAASVTLTAQSRTSLAGIVQQQQQLLDVVKKQQEMLRLTVWGTK NLQTRVTAIEKYLKDQAQLNSWGCAFRQVCHTSVPWVNDSLTPDWNNMTWQEWEQKVRYWEA NISQSLEQAQIQQEKNLYELQKLNSWGVFTNWLDFTSWVRYIQYGAYVVVGIVTLRIVIYIV QMLSRLRKGYRPVFSSPPGYIQQIHIHKDQEQPAREETEEDVGSNGGDRSWL

FIG. 19F

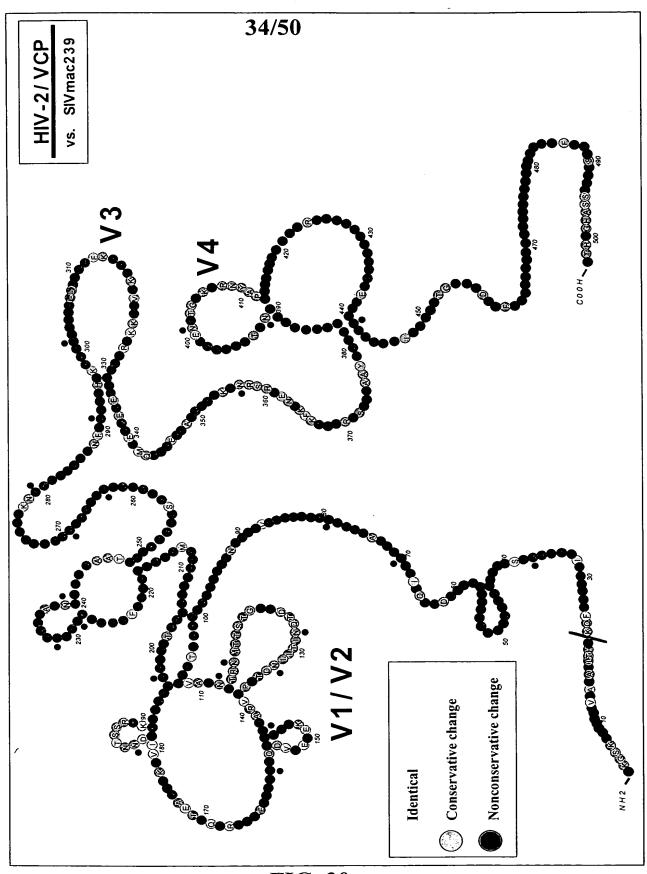


FIG. 20

FIG. 21A

MKGSKNQLLIAIVLASAYLTHCKQFVTVFYGIPAWRNASIPLFCATKNRDTWGTIQC LPDNDDYQEIALNVTEAFDAWNNTVTEQAVEDVWNLFETSIKPCVKLTPLCVAMNCT RNMTTSTGTTDTQNITIINDTSPCVRADNCTGLKEEMVDCQFNMTGLERDKRKQYT EAWYSKDVICDNNTSSRSKCYMNHCNTSVITESCDKHYWDAMRFRYCAPPGFALLRC NDTNYSGFAPNCSKVVAATCTRMMETQSSTWFGFNGTRAENRTYIYWHGKNNRTIIS LNNFYNLTMHCKRPGNKTVLPIMSGFKFHSKPVINKKPRQAWCWFKGEWKEAMQEVK ETLAKHPRYKGNRSRTENIKFKAPGRGSDPEAAYMWTNCRGEFLYCNMTWFLNWVDN RTGQKQRNYAPCHIRQIINTWHRVGKNVYLPPREGELTCNSTVTSIIANIDTGDQTD ITFSAEVAELYRLELGDYKLVEITPIGFAPTSVKRYSSAHQRHTRGVFVLGFLGFLA TAGSAMGAASLTLTAQSRTSLAGIVQQQQQLLDVVKKQQEMLRLTVWGTKNLQARVT AIEKYLKDQAQLNSWGCAFRQVCHTSVPWVNDSLTPDWNNMTWQEWEQKVRYWEANI SQSLEQAQIQQEKNLYELQKLNSWGVFTNWLDFTSWVRYIQYGVYVVVGIVALRIVI YIVQMLSRLRKGYRPVFSSPPGYIQQIHIHKDQEQPAREETEEDVGSNGGDRSWL

36/50

FIG. 21B

ACACATTGCAAGCAATTTGTGACTGTTTTCTATGGCATACCCGCGTGGAGGAATGCA TCCATTCCCCTGTTTTGTGCAACCAAAAATAGAGATACTTGGGGAACCATACAGTGC TTGCCAGACAATGATGATTATCAGGAAATAGCTCTAAATGTAACAGAGGCTTTCGAT GCATGGAATAATACAGTAACAGAACAAGCAGTGGAGGATGTCTGGAATCTATTTGAG ACATCAATAAAACCATGTGTCAAATTAACACCCTTATGTGTAGCAATGAACTGTACA AGGAACATGACCACATCCACAGGGACCACAGACACCCAAAATATCACAATTATAAAT GACACTTCGCCATGCGTACGTGCAGACAACTGCACAGGATTAAAGGAGGAAGAAATG GTCGACTGTCAGTTTAATATGACAGGATTAGAGAGAGACAAGAGAAAACAGTATACT GAAGCATGGTACTCAAAAGATGTGATTTGTGACAATAACACCTCAAGTCGGAGCAAG TGTTACATGAACCATTGCAATACATCAGTCATCACAGAGTCATGTGATAAGCACTAT TGGGATGCTATGAGGTTTAGATACTGTGCACCACCGGGTTTTGCCCTACTAAGATGC AATGATACTAATTATTCAGGCTTTGCACCTAATTGCTCTAAAGTAGTAGCTGCTACA TGCACCAGAATGATGGAAACGCAATCTTCTACATGGTTTGGCTTTAATGGCACTAGA GCAGAAAATAGAACATATATCTATTGGCATGGTAAAAATAACAGAACTATTATCAGC TTAAATAACTTTTATAATCTCACTATGCATTGTAAGAGGCCGGGAAATAAGACAGTG TTACCAATAATGTCAGGGTTTAAGTTTCACTCCAAGCCGGTCATCAATAAAAAACCC GAGACCCTTGCGAAACATCCCAGATATAAAGGGAACAGGAGCCGCACAGAGAATATT AAATTTAAAGCACCAGGAAGAGGCTCAGACCCAGAAGCAGCATACATGTGGACTAAC TGCAGAGGGGAATTTCTCTACTGCAACATGACTTGGTTCCTCAATTGGGTAGATAAC ACTTGGCACAGGGTAGGGAAAAACGTATATTTGCCTCCCAGGGAAGGGGAGTTGACC TGCAACTCAACAGTGACCAGCATAATTGCCAACATTGATACGGGAGATCAAACAGAT ATTACCTTTAGTGCAGAGGTGGCAGAACTATACCGATTGGAATTGGGAGATTACAAA TTAGTAGAAATCACACCAATTGGCTTCGCACCTACATCAGTAAAGAGATACTCCTCT GCTCACCAGAGACATACAAGAGGTGTGTTCGTGCTAGGGTTCTTGGGTTTTCTCGCA ACGGCAGGTTCTGCAATGGGCGCGCGTCGTTGACGCTGACCGCTCAGTCCCGGACT TCATTGGCTGGGATAGTGCAGCAACAGCAACAGCTGTTGGATGTGGTCAAGAAACAA CAAGAAATGTTGCGACTGACCGTCTGGGGAACTAAAAATCTCCAGGCAAGAGTCACT GCTATAGAGAAATACCTAAAGGACCAGGCGCAGCTAAATTCATGGGGATGTGCGTTT AGACAAGTCTGCCACACTTCTGTACCATGGGTAAATGATAGCTTGACACCTGATTGG AACAATATGACGTGGCAGGAATGGGAACAAAAAGTCCGCTACTGGGAGGCAAATATC AGTCAAAGTCTAGAACAAGCACAAATTCAGCAAGAAAAGAATTTGTATGAGCTGCAA AAATTAAATAGCTGGGGTGTTTTTACCAATTGGCTTGACTTCACCTCCTGGGTCAGG TATATTCAATATGGAGTTTATGTAGTAGTAGGAATAGTAGCTTTAAGAATAGTAATA TATATAGTACAGATGTTAAGTAGACTTAGGAAGGGCTATAGGCCTGTTTTCTCCTCC GAAGAACAGAAGAAGACGTTGGAAGCAACGGTGGAGACAGATCTTGGCTTTAGCCG ATAGCATATATTCATTTCCTGATCCGCCTGCTGATTCGCCTCTTGATCGGGCTATAC AGTCTCCAGAGAGCACTAACAGCAATCAGAGACTGGCTGAGGCTTAAAGCAGCCTAC CTGCAGTATGGGTGCGAGTGGATCCAAGAGCGTTCCAAGCCCTTGCAAGGACTACA AGAGAGACTCTTGCAGGCGCGGGG

FIG. 21C

MKGSKNQLLIAIVLASAYLTHCKQFVTVFYGIPAWRNASIPLFCATKNRDTWGTIQC LPDNDDYQEIALNVTEAFDAWNNTVTEQAVEDVWNLFETSIKPCVKLTPLCVAMNCT RNMTTSTGTTDTQNITIINDTSPCVRADNCTGLKEEEMVDCQFNMTGLERDKRKQYT EAWYSKDVICDNNTSSRSKCYMNHCNTSVITESCDKHYWDAMRFRYCAPPGFALLRC NDTNYSGFAPNCSKVVAATCTRMMETQSSTWFGFNGTRAENRTYIYWHGKNNRTIIS LNNFYNLTMHCKRPGNKTVLPIMSGFKFHSKPVINKKPRQAWCWFKGEWKEAMQEVK ETLAKHPRYKGNRSRTENIKFKAPGRGSDPEAAYMWTNCRGEFLYCNMTWFLNWVDN RTGQKQRNYAPCHIRQIINTWHRVGKNVYLPPREGELTCNSTVTSIIANIDTGDQTD ITFSAEVAELYRLELGDYKLVEITPIGFAPTSVKRYSSAHQRHTR

FIG. 21D

ACACATTGCAAGCAATTTGTGACTGTTTTCTATGGCATACCCGCGTGGAGGAATGCA TCCATTCCCCTGTTTTGTGCAACCAAAAATAGAGATACTTGGGGAACCATACAGTGC TTGCCAGACAATGATGATTATCAGGAAATAGCTCTAAATGTAACAGAGGCTTTCGAT GCATGGAATAATACAGTAACAGAACAAGCAGTGGAGGATGTCTGGAATCTATTTGAG ACATCAATAAAACCATGTGTCAAATTAACACCCTTATGTGTAGCAATGAACTGTACA AGGAACATGACCACACAGGGACCACAGACACCCAAAATATCACAATTATAAAT GACACTTCGCCATGCGTACGTGCAGACAACTGCACAGGATTAAAGGAGGAAGAAATG GTCGACTGTCAGTTTAATATGACAGGATTAGAGAGAGACAAGAGAAAACAGTATACT GAAGCATGGTACTCAAAAGATGTGATTTGTGACAATAACACCTCAAGTCGGAGCAAG TGTTACATGAACCATTGCAATACATCAGTCATCACAGAGTCATGTGATAAGCACTAT TGGGATGCTATGAGGTTTAGATACTGTGCACCACCGGGTTTTGCCCTACTAAGATGC AATGATACTAATTATTCAGGCTTTGCACCTAATTGCTCTAAAGTAGTAGCTGCTACA TGCACCAGAATGATGGAAACGCAATCTTCTACATGGTTTGGCTTTAATGGCACTAGA GCAGAAAATAGAACATATATCTATTGGCATGGTAAAAATAACAGAACTATTATCAGC TTAAATAACTTTTATAATCTCACTATGCATTGTAAGAGGCCGGGAAATAAGACAGTG TTACCAATAATGTCAGGGTTTAAGTTTCACTCCAAGCCGGTCATCAATAAAAAACCC GAGACCCTTGCGAAACATCCCAGATATAAAGGGAACAGGAGCCGCACAGAGAATATT AAATTTAAAGCACCAGGAAGAGGCTCAGACCCAGAAGCAGCATACATGTGGACTAAC TGCAGAGGGGAATTTCTCTACTGCAACATGACTTGGTTCCTCAATTGGGTAGATAAC ACTTGGCACAGGGTAGGGAAAAACGTATATTTGCCTCCCAGGGAAGGGGAGTTGACC TGCAACTCAACAGTGACCAGCATAATTGCCAACATTGATACGGGAGATCAAACAGAT ATTACCTTTAGTGCAGAGGTGGCAGAACTATACCGATTGGAATTGGGAGATTACAAA TTAGTAGAAATCACACCAATTGGCTTCGCACCTACATCAGTAAAGAGATACTCCTCT GCTCACCAGAGACATACAAGA

FIG. 21E

GVFVLGFLGFLATAGSAMGAASLTLTAQSRTSLAGIVQQQQQLLDVVKKQQEMLRLT VWGTKNLQARVTAIEKYLKDQAQLNSWGCAFRQVCHTSVPWVNDSLTPDWNNMTWQE WEQKVRYWEANISQSLEQAQIQQEKNLYELQKLNSWGVFTNWLDFTSWVRYIQYGVY VVVGIVALRIVIYIVQMLSRLRKGYRPVFSSPPGYIQQIHIHKDQEQPAREETEEDV GSNGGDRSWL*PIAYIHFLIRLLIRLLIGLYNICRDLLSRISPILQPIFQSLQRALT AIRDWLRLKAAYLQYGCEWIQEAFQALARTTRETLAGAG

FIG. 21F

GGTGTGTTCGTGCTAGGGTTCTTGGGTTTTCTCGCAACGGCAGGTTCTGCAATGGGC GCGGCGTCGTTGACGCTGACCGCTCAGTCCCGGACTTCATTGGCTGGGATAGTGCAG CAACAGCAACAGCTGTTGGATGTGGTCAAGAAACAACAAGAAATGTTGCGACTGACC GTCTGGGGAACTAAAAATCTCCAGGCAAGAGTCACTGCTATAGAGAAATACCTAAAG GACCAGGCGCAGCTAAATTCATGGGGATGTGCGTTTAGACAAGTCTGCCACACTTCT GTACCATGGGTAAATGATAGCTTGACACCTGATTGGAACAATATGACGTGGCAGGAA TGGGAACAAAAGTCCGCTACTGGGAGGCAAATATCAGTCAAAGTCTAGAACAAGCA CAAATTCAGCAAGAAAGAATTTGTATGAGCTGCAAAAATTAAATAGCTGGGGTGTT TTTACCAATTGGCTTGACTTCACCTCCTGGGTCAGGTATATTCAATATGGAGTTTAT GTAGTAGGAATAGTAGCTTTAAGAATAGTAATATATAGTACAGATGTTAAGT AGACTTAGGAAGGCCTATAGGCCTGTTTTCTCCTCCCCCCCGGTTATATCCAACAG GGAAGCAACGGTGGAGACAGATCTTGGCTTTAGCCGATAGCATATATTCATTTCCTG ATCCGCCTGCTGATCGCCTCTTGATCGGGCTATACAACATCTGCAGAGACTTACTA TCCAGGATCTCCCGATCCTCCAACCAATCTTCCAGAGTCTCCAGAGAGCACTAACA GCAATCAGAGACTGGCTGAGGCTTAAAGCAGCCTACCTGCAGTATGGGTGCGAGTGG ATCCAAGAGCGTTCCAAGCCCTTGCAAGGACTACAAGAGAGACTCTTGCAGGCGCG GGG

FIG. 22A

MKGSKNQLLIAIVLASAYLTHCKQFVTVFYGIPAWRNASIPLFCATKNRDTWGTVQCLPDND
DYQEIALNVTEAFDAWDNTVTEQAVEDVWNLFETSIKPCVKLTPLCVGAGHCNTSVIKESCD
KHYWDAMRFRYCAPPGFALLRCNDINYSGFAPNCSKVVAATCTRMMETQSSTWFGFNGTRTE
NRTYIYWHGKNNRTIISLNNFYNLTMHCKRPGNKGAGKPRQAWCWFKGEWKEAMQEVKETLA
KHPRYKGNRSRTENIKFKAPGRGSDPEAAYMWTNCRGEFLYCDMTWFLNWVDNRTGQKQRNY
APCHIRQIINTWHRVGKNVYLPPREGELTCNSTVTSIIANIDTGDQTDITFSAEVAELYRLE
LGDYKLVEITPIGFAPTSVKRYSSAHQRHTRGVFVLGFLGFLATAGSAMGAASVTLTAQSRT
SLTGIVQQQQQLLDVVKKQQEMLRLTVWGTKNLQARVTAIEKYLKDQAQLNSWGCAFRQVCH
TSVPWVNDSLTPDWNNMTWQEWEQKVRYWEANISQSLEQAQIQQEKNLYELQKLNSWGVFTN
WLDFTSWVRYIQYGVYVVVGIVALRIVIYIVQMLSRLRKGYRPVFSSPPGYIQQIHIHKDQE
QPAREETEEDVGSNGGDRSWL*PIAYIHFLIRLLIRLLIGLYNICRDLLSRISPILQPIFQS
LQRALTAIRDWLRLKAAYLQYGCEWIQEAFQALARTTRETLAGAG

FIG. 22B

TTGCAAGCAATTTGTGACTGTTTTCTATGGCATACCCGCGTGGAGGAATGCATCCATTCCCC TGTTTTGTGCAACCAAAAATAGAGATACTTGGGGAACTGTACAGTGCTTGCCAGACAATGAT GATTATCAGGAAATAGCTTTAAATGTAACAGAGGCTTTCGATGCATGGGATAATACAGTAAC AGAACAAGCAGTGGAGGATGTCTGGAATCTATTTGAGACATCAATAAAACCATGTGTCAAAT TAACACCCTTATGTGTAGGTGCCGGCCATTGCAATACATCAGTCATCAAAGAGTCATGTGAT AAGCACTATTGGGATGCTATGAGGTTTAGATACTGTGCACCACCGGGTTTTGCCCTACTAAG ATGCAATGATATTAATTATTCAGGCTTTGCACCTAATTGCTCTAAAGTAGTAGCTGCTACAT GCACCAGAATGATGGAAACGCAATCTTCTACATGGTTTGGCTTTAATGGCACTAGAACAGAA AATAGAACATATATCTATTGGCATGGTAAAAATAACAGAACTATTATCAGCTTAAATAACTT TTATAATCTCACTATGCATTGTAAGAGGCCGGGAAATAAGGGTGCCGGCAAACCCAGGCAAG CATGGTGTTGGTTCAAAGGCGAATGGAAGGAAGCCATGCAGGAGGTGAAGGAGACCCTTGCG AAACATCCCAGATATAAAGGGAACAGGAGCCGCACAGAGAATATTAAATTTAAAGCACCAGG AAGAGGCTCAGACCCAGAAGCAGCATACATGTGGACTAACTGCAGAGGGGAATTTCTCTACT GCGACATGACTTGGTTCCTCAATTGGGTAGATAACAGGACGGGTCAGAAACAGCGCAATTAT GCACCGTGCCATATAAGACAAATAATTAATACTTGGCACAGGGTAGGGAAAAACGTATATTT GCCTCCCAGGGAAGGGGAGTTGACCTGCAACTCAACAGTGACCAGCATAATTGCCAACATTG ATACGGGAGATCAAACAGATATTACCTTTAGTGCAGAGGTGGCAGAACTATACCGATTGGAA TTGGGAGATTACAAATTAGTAGAAATCACACCAATTGGCTTCGCACCTACATCAGTAAAGAG ATACTCCTCTGCTCACCAGAGACATACAAGAGGTGTGTTCGTGCTAGGGTTCTTGGGTTTTTC TCGCAACGGCAGGTTCTGCAATGGGCGCGCGCTCGGTGACGCTGACCGCTCAGTCCCGGACT TCATTGACTGGGATAGTGCAGCAACAGCAACAGCTGTTGGATGTGGTCAAGAAACAACAAGA AATGTTGCGACTGACCGTCTGGGGAACTAAAAATCTCCAGGCAAGAGTCACTGCTATAGAGA AATACCTAAAGGACCAGGCGCAGCTAAATTCATGGGGATGTGCGTTTAGACAAGTCTGCCAC ACTTCTGTACCATGGGTAAATGATAGCTTGACACCTGATTGGAACAATATGACGTGGCAGGA ATGGGAACAAAAGTCCGCTACTGGGAGGCAAATATCAGTCAAAGTCTAGAACAAGCACAAA TTCAGCAAGAAAGAATTTGTATGAGCTGCAAAAATTAAATAGCTGGGGTGTTTTTACCAAT TGGCTTGACTTCACCTCCTGGGTCAGGTATATTCAATATGGAGTTTACGTAGTAGGAAT AGTAGCTTTAAGAATAGTAATATATATAGTACAGATGTTAAGTAGACTTAGGAAGGGCTATA GGCCTGTTTTCTCCTCCCCCCCGGTTATATCCAACAGATCCATATCCACAAGGACCAGGAA CAGCCAGCCAGAGAAGAACAGAAGAAGACGTTGGAAGCAACGGTGGAGACAGATCTTGGCT TTAGCCGATAGCATATTCATTTCCTGATCCGCCTGCTGATTCGCCTCTTGATCGGGCTAT CTCCAGAGAGCACTAACAGCAATCAGAGACTGGCTGAGGCTTAAAGCAGCCTACCTGCAGTA TGGGTGCGAGTGGATCCAAGAGCGTTCCAAGCCCTTGCAAGGACTACAAGAGAGACTCTTG CAGGCGCGGGG

FIG. 22C

MKGSKNQLLIAIVLASAYLTHCKQFVTVFYGIPAWRNASIPLFCATKNRDTWGTVQCLPDND DYQEIALNVTEAFDAWDNTVTEQAVEDVWNLFETSIKPCVKLTPLCVGAGHCNTSVIKESCD KHYWDAMRFRYCAPPGFALLRCNDINYSGFAPNCSKVVAATCTRMMETQSSTWFGFNGTRTE NRTYIYWHGKNNRTIISLNNFYNLTMHCKRPGNKGAGKPRQAWCWFKGEWKEAMQEVKETLA KHPRYKGNRSRTENIKFKAPGRGSDPEAAYMWTNCRGEFLYCDMTWFLNWVDNRTGQKQRNY APCHIRQIINTWHRVGKNVYLPPREGELTCNSTVTSIIANIDTGDQTDITFSAEVAELYRLE LGDYKLVEITPIGFAPTSVKRYSSAHORHTR

FIG. 22D

TTGCAAGCAATTTGTGACTGTTTTCTATGGCATACCCGCGTGGAGGAATGCATCCATTCCCC TGTTTTGTGCAACCAAAAATAGAGATACTTGGGGAACTGTACAGTGCTTGCCAGACAATGAT GATTATCAGGAAATAGCTTTAAATGTAACAGAGGCTTTCGATGCATGGGATAATACAGTAAC AGAACAAGCAGTGGAGGATGTCTGGAATCTATTTGAGACATCAATAAAACCATGTGTCAAAT TAACACCCTTATGTGTAGGTGCCGGCCATTGCAATACATCAGTCATCAAAGAGTCATGTGAT AAGCACTATTGGGATGCTATGAGGTTTAGATACTGTGCACCACCGGGTTTTGCCCTACTAAG ATGCAATGATATTAATTATTCAGGCTTTGCACCTAATTGCTCTAAAGTAGTAGCTGCTACAT GCACCAGAATGATGGAAACGCAATCTTCTACATGGTTTGGCTTTAATGGCACTAGAACAGAA AATAGAACATATATCTATTGGCATGGTAAAAATAACAGAACTATTATCAGCTTAAATAACTT TTATAATCTCACTATGCATTGTAAGAGGCCGGGAAATAAGGGTGCCGGCAAACCCAGGCAAG CATGGTGTTGGTTCAAAGGCGAATGGAAGGAAGCCATGCAGGAGGTGAAGGAGACCCTTGCG AAACATCCCAGATATAAAGGGAACAGGAGCCGCACAGAGAATATTAAATTTAAAGCACCAGG AAGAGGCTCAGACCCAGAAGCAGCATACATGTGGACTAACTGCAGAGGGGAATTTCTCTACT GCGACATGACTTGGTTCCTCAATTGGGTAGATAACAGGACGGGTCAGAAACAGCGCAATTAT GCACCGTGCCATATAAGACAAATAATTAATACTTGGCACAGGGTAGGGAAAAACGTATATTT GCCTCCCAGGGAAGGGGAGTTGACCTGCAACTCAACAGTGACCAGCATAATTGCCAACATTG ATACGGGAGATCAAACAGATATTACCTTTAGTGCAGAGGTGGCAGAACTATACCGATTGGAA TTGGGAGATTACAAATTAGTAGAAATCACACCAATTGGCTTCGCACCTACATCAGTAAAGAG ATACTCCTCTGCTCACCAGAGACATACAAGA

FIG. 22E

GVFVLGFLGFLATAGSAMGAASVTLTAQSRTSLTGIVQQQQQLLDVVKKQQEMLRLTVWGTK NLQARVTAIEKYLKDQAQLNSWGCAFRQVCHTSVPWVNDSLTPDWNNMTWQEWEQKVRYWEA NISQSLEQAQIQQEKNLYELQKLNSWGVFTNWLDFTSWVRYIQYGVYVVVGIVALRIVIYIV QMLSRLRKGYRPVFSSPPGYIQQIHIHKDQEQPAREETEEDVGSNGGDRSWL*PIAYIHFLI RLLIRLLIGLYNICRDLLSRISPILQPIFQSLQRALTAIRDWLRLKAAYLQYGCEWIQEAFQ ALARTTRETLAGAG

FIG. 22F

GGTGTTCGTGCTAGGGTTCTTGGGTTTTCTCGCAACGGCAGGTTCTGCAATGGGCGCGGC GTCGGTGACGCTGACCGCTCAGTCCCGGACTTCATTGACTGGGATAGTGCAGCAACAGCAAC AGCTGTTGGATGTCAAGAAACAACAAGAAATGTTGCGACTGACCGTCTGGGGAACTAAA AATCTCCAGGCAAGAGTCACTGCTATAGAGAAATACCTAAAGGACCAGGCGCAGCTAAATTC ATGGGGATGTGCGTTTAGACAAGTCTGCCACACTTCTGTACCATGGGTAAATGATAGCTTGA CACCTGATTGGAACAATATGACGTGGCAGGAATGGGAACAAAAAGTCCGCTACTGGGAGGCA AATATCAGTCAAAGTCTAGAACAAGCACAAATTCAGCAAGAAAAGAATTTGTATGAGCTGCA AAAATTAAATAGCTGGGGTGTTTTTACCAATTGGCTTGACTTCACCTCCTGGGTCAGGTATA TTGGAAGCAACGGTGGAGACAGATCTTGGCTTTAGCCGATAGCATATATTCATTTCCTGATC CGCCTGCTGATTCGCCTCTTGATCGGGCTATACAACATCTGCAGAGACTTACTATCCAGGAT CTCCCGATCCTCCAACCAATCTTCCAGAGTCTCCAGAGAGCACTAACAGCAATCAGAGACT GGCTGAGGCTTAAAGCAGCCTACCTGCAGTATGGGTGCGAGTGGATCCAAGAAGCGTTCCAA GCCCTTGCAAGGACTACAAGAGAGACTCTTGCAGGCGCGGGG

FIG. 23A

MKGSKNQPLIAIVLASAYLTHCKQFVTVFYGIPAWRNASIPLFCATKNRDTWGTVQCLPDND DYQEIALNVTEAFDAWDNTVTEQAVEDVWNLSETSIKPCVKLTPLCVGAGHCNTSVITESCD KHYWDAMRFRYCAPPGFALLRCNDTNYSGFAPNCSKVVAATCTRMMETQSSTWFGFNGTRAE NRTYIYWHGKNDRTIISLNNFYNLTMHCKRPGNKGAGKPRQAWCWFKGEWKEAMQEVKETLA KHPRYKGNRSRTENIKFKAPGRGSDPEAAYMWTNCRGEFLYCDMTWFLNWVENRTGQKQRNY APCHIRQIINTWHRVGKNVYLPPREGELTCNSTVTSIIANIDTGDQTDITFSAEVAELYRLE LGDYKLVEITPIGFAPTSVKRYSSAHQRHTRGVFVLGFLGFLATAGSAMGAASVTLTAQSRT SLTGVVQQQQQLLDVVKKQQEMLRLTVWGTKNLQARVTAIEKYLKDQAQLNSWGCAFRQVCH TSVPWVNDSLTPDWNNMTWQEWEQKVRYWEANISQSLEQAQIQQEKNLYELQKLNSWGVFTN WLDFTSWVRYIQYGVYVVVGIVALRIVIYIVQMLSRLRKGYRPVFSSPPGYIQQIHIHKDQE QPAREETEEDVGSNGGDKSWL

FIG. 23B

TTGCAAGCAATTTGTGACTGTTTTCTATGGCATACCCGCGTGGAGGAATGCATCCATTCCCC TGTTTTGTGCAACCAAAAATAGAGATACTTGGGGAACCGTACAGTGCTTGCCAGACAATGAT GATTATCAGGAAATAGCTTTAAATGTAACAGAGGCTTTCGATGCATGGGATAATACAGTAAC AGAACAAGCAGTGGAGGATGTCTGGAATCTATCTGAGACATCAATAAAACCATGTGTCAAAT TAACACCCTTATGTGTAGGTGCCGGCCATTGCAATACATCAGTCATCACAGAGTCATGTGAT AAGCACTATTGGGATGCTATGAGGTTTAGATACTGTGCACCACCGGGTTTTGCCTTACTAAG ATGCAATGATACTAATTATTCAGGCTTTGCACCTAATTGCTCTAAAGTAGTAGCTGCTACAT GCACCAGAATGATGGAAACGCAATCTTCTACATGGTTTGGCTTTAATGGCACTAGAGCAGAA AATAGAACATATATCTATTGGCATGGTAAAAATGACAGAACTATTATCAGCTTAAATAACTT TTATAATCTCACTATGCATTGTAAGAGGCCGGGAAATAAGGGTGCCGGCAAACCCAGGCAAG CATGGTGTTGGTTCAAAGGCGAATGGAAGGAAGCCATGCAGGAGGTGAAGGAGCCCTTGCG AAACATCCTAGATATAAAGGGAACAGGAGCCGCACAGAGAATATTAAATTTAAAGCACCAGG AAGAGGCTCAGACCCAGAAGCAGCATACATGTGGACTAACTGCAGAGGGGAATTTCTCTACT GCGACATGACTTGGTTCCTCAATTGGGTAGAAAACAGGACGGGTCAGAAACAGCGTAATTAT GCACCGTGCCATATAAGGCAAATAATTAATACTTGGCACAGGGTAGGGAAAAACGTATATTT GCCTCCCAGGGAAGGGGAGTTAACCTGCAACTCAACAGTGACCAGCATAATTGCCAACATTG ATACGGGAGATCAAACAGATATTACCTTTAGTGCAGAGGTGGCAGAACTATACCGGTTGGAA TTGGGAGATTACAAATTAGTAGAAATCACACCAATTGGCTTCGCACCTACATCAGTAAAGAG ATACTCCTCTGCTCACCAGAGACATACAAGAGGTGTGTTCGTGCTAGGGTTCTTGGGTTTTCTCGCAACGGCAGGTTCTGCAATGGGCGCGCGCTCGGTGACGCTGACCGCTCAGTCCCGGACT TCATTGACTGGGGTAGTGCAGCAACAGCAACAGCTGTTGGATGTGGTCAAGAAACAACAAGA AATGTTGCGACTGACCGTCTGGGGAACTAAAAATCTCCAGGCAAGAGTCACTGCTATAGAGA AATACCTAAAGGACCAGGCGCAGCTAAATTCATGGGGATGTGCGTTTAGACAAGTCTGCCAC ACTTCTGTACCATGGGTAAATGATAGCTTGACACCTGATTGGAACAATATGACGTGGCAGGA ATGGGAACAAAAGTCCGCTACTGGGAGGCAAATATCAGTCAAAGTCTAGAACAAGCACAAA TTCAGCAAGAAAGAATTTGTATGAGCTGCAAAAATTAAATAGCTGGGGTGTTTTTACCAAT TGGCTTGACTTCACCTCCTGGGTCAGGTATATTCAATATGGAGTTTATGTAGTAGTAGGAAT AGTAGCTTTAAGAATAGTAATATATATAGTACAGATGTTGAGTAGACTTAGGAAGGGCTATA GGCCTGTTTTCTCCTCCCCCCCGGTTATATCCAACAGATCCATATCCACAAGGACCAGGAA CAGCCAGCCAGAGAAGAACAGAAGAAGACGTTGGAAGCAACGGTGGAGACAAATCTTGGCT TTAG

FIG. 23C

MKGSKNQPLIAIVLASAYLTHCKQFVTVFYGIPAWRNASIPLFCATKNRDTWGTVQCLPDND DYQEIALNVTEAFDAWDNTVTEQAVEDVWNLSETSIKPCVKLTPLCVGAGHCNTSVITESCD KHYWDAMRFRYCAPPGFALLRCNDTNYSGFAPNCSKVVAATCTRMMETQSSTWFGFNGTRAE NRTYIYWHGKNDRTIISLNNFYNLTMHCKRPGNKGAGKPRQAWCWFKGEWKEAMQEVKETLA KHPRYKGNRSRTENIKFKAPGRGSDPEAAYMWTNCRGEFLYCDMTWFLNWVENRTGQKQRNY APCHIRQIINTWHRVGKNVYLPPREGELTCNSTVTSIIANIDTGDQTDITFSAEVAELYRLE LGDYKLVEITPIGFAPTSVKRYSSAHQRHTR

FIG. 23D

TTGCAAGCAATTTGTGACTGTTTTCTATGGCATACCCGCGTGGAGGAATGCATCCATTCCCC TGTTTTGTGCAACCAAAAATAGAGATACTTGGGGAACCGTACAGTGCTTGCCAGACAATGAT GATTATCAGGAAATAGCTTTAAATGTAACAGAGGCTTTCGATGCATGGGATAATACAGTAAC AGAACAAGCAGTGGAGGATGTCTGGAATCTATCTGAGACATCAATAAAACCATGTGTCAAAT TAACACCCTTATGTGTAGGTGCCGGCCATTGCAATACATCAGTCATCACAGAGTCATGTGAT AAGCACTATTGGGATGCTATGAGGTTTAGATACTGTGCACCACCGGGTTTTGCCTTACTAAG ATGCAATGATACTAATTATTCAGGCTTTGCACCTAATTGCTCTAAAGTAGTAGCTGCTACAT GCACCAGAATGATGGAAACGCAATCTTCTACATGGTTTGGCTTTAATGGCACTAGAGCAGAA AATAGAACATATATCTATTGGCATGGTAAAAATGACAGAACTATTATCAGCTTAAATAACTT TTATAATCTCACTATGCATTGTAAGAGGCCGGGAAATAAGGGTGCCGGCAAACCCAGGCAAG CATGGTGTTGGTTCAAAGGCGAATGGAAGGAAGCCATGCAGGAGGTGAAGGAGACCCTTGCG AAACATCCTAGATATAAAGGGAACAGGAGCCGCACAGAGAATATTAAATTTAAAGCACCAGG AAGAGGCTCAGACCCAGAAGCAGCATACATGTGGACTAACTGCAGAGGGGAATTTCTCTACT GCGACATGACTTGGTTCCTCAATTGGGTAGAAAACAGGACGGGTCAGAAACAGCGTAATTAT GCACCGTGCCATATAAGGCAAATAATTAATACTTGGCACAGGGTAGGGAAAAACGTATATTT GCCTCCCAGGGAAGGGGAGTTAACCTGCAACTCAACAGTGACCAGCATAATTGCCAACATTG ATACGGGAGATCAAACAGATATTACCTTTAGTGCAGAGGTGGCAGAACTATACCGGTTGGAA TTGGGAGATTACAAATTAGTAGAAATCACACCAATTGGCTTCGCACCTACATCAGTAAAGAG ATACTCCTCTGCTCACCAGAGACATACAAGA

FIG. 23E

GVFVLGFLGFLATAGSAMGAASVTLTAQSRTSLTGVVQQQQQLLDVVKKQQEMLRLTVWGTK NLQARVTAIEKYLKDQAQLNSWGCAFRQVCHTSVPWVNDSLTPDWNNMTWQEWEQKVRYWEA NISQSLEQAQIQQEKNLYELQKLNSWGVFTNWLDFTSWVRYIQYGVYVVVGIVALRIVIYIV QMLSRLRKGYRPVFSSPPGYIQQIHIHKDQEQPAREETEEDVGSNGGDKSWL

FIG. 23F

FIG. 24A

MKGSKNQLLIAIILASAYLTHCKQFVTVFYGIPAWRNASIPLFCATKNRDTWGTIQCLPDND DYQEIALNVTEAFDAWNNTVTEQAVEDVWNLFETSIKPCVKLTPLCVAMNCTRNMTTSTGTT DTQNITIINDTSPCVRADNCTGLKEEEMVDCQFNMTGLERDKRKQYTGAWYSKDVICDNNTS SRSKCYMNHCNTSVITESCDKHYWDAMRFRYCAPPGFALLRCNDTNYSGFAPNCSKVVAATC TRMMETQSSTWFGFNGTRAENRTYIYWHGKNNRTIISLNNFYNLTMHCKRPGNKGAGKPRQA WCWFKGEWKEAMQEVKETLAKHPRYKGNRSRTENIKFKAPGRGSDPEAAYMWTNCRGEFLYC NMAWFLNWVDNRTGQKQRNYAPCHIRQIINTWHRVGKNIYLPPREGELTCNSTVTSIIANID TGDQTDITFSAEVAELYRLELGDYKLVEITPIGFAPTSVKRYSSAHQRHTRGVFVLGFLGFL ATAGSAMGAASVTLTAQSRTSLAGIVQQQQQLLDVVKKQQEMLRLTVWGTKNLQTRVTAIEK YLKDQAQLNSWGCAFRQVCHTSVPWVNDSLTPDWNNMTWQEWEQKVRYWEANISQSLEQAQI QQEKNLYELQKLNSWGVFTNWLDFTSWVRYIQYGVYVVVGIVTLRIVIYIVQMLSRLRKGYR PVFSSPPGYIQQIHIHKDQEQPAREETEEDVGSNGGDRSWL

FIG. 24B

TTGCAAGCAATTTGTGACTGTTTTCTATGGCATACCCGCGTGGAGGAATGCATCCATTCCCC TGTTTTGTGCAACCAAAAATAGAGATACTTGGGGAACCATACAGTGCTTGCCAGACAATGAT GATTATCAGGAAATAGCTCTAAATGTAACAGAGGCTTTCGATGCATGGAATAATACAGTAAC AGAACAAGCAGTGGAGGATGTCTGGAATCTATTTGAGACATCAATAAAACCATGTGTCAAAT TAACACCCTTATGTGTAGCAATGAACTGTACAAGGAACATGACCACATCCACAGGGACCACA GACACCCAAAATATCACAATTATAAATGACACTTCGCCATGCGTACGTGCAGACAACTGCAC AGAGAAAACAGTATACTGGAGCATGGTACTCAAAAGATGTGATTTGTGACAATAACACCTCA AGTCGGAGCAAGTGTTACATGAACCATTGCAATACATCAGTCATCACAGAGTCATGTGATAA GCACTATTGGGATGCTATGAGGTTTAGATACTGTGCACCACCGGGTTTTGCCCTACTAAGAT GCAATGATACTAATTATTCAGGCTTTGCACCTAATTGCTCTAAAGTAGTAGCTGCTACATGC ACCAGAATGATGGAAACGCAATCTTCTACATGGTTTGGATTTAATGGCACTAGAGCAGAAAA TAGAACATATATCTATTGGCATGGTAAAAATAACAGAACTATTATCAGCTTAAATAACTTTT ATAATCTCACTATGCATTGTAAGAGGCCGGGAAATAAGGGTGCCGGCAAACCCAGGCAAGCA TGGTGTTGGTTCAAAGGCGAATGGAAGGAAGCCATGCAGGAGGTGAAGGAGACCCTTGCGAA ACATCCCAGATATAAAGGGAACAGGAGCCGCACAGAGAATATTAAATTTAAAGCACCAGGAA GAGGCTCAGACCCAGAAGCAGCATACATGTGGACTAACTGCAGAGGGGAATTTCTCTACTGC AACATGGCTTGGTTCCTCAATTGGGTAGATAACAGGACGGGTCAGAAACAGCGCAATTATGC ACCGTGCCATATAAGGCAAATAATTAATACTTGGCACAGGGTAGGGAAAAACATATATTTGC CTCCCAGGGAAGGGGAGTTGACCTGCAACTCAACAGTGACCAGCATAATTGCCAACATTGAT ACGGGAGATCAAACAGATATTACCTTTAGTGCAGAGGTGGCAGAACTATACCGATTGGAATT GGGAGATTACAAATTAGTAGAAATCACACCAATTGGCTTCGCACCTACATCAGTAAAGAGAT ACTCCTCTGCTCACCAGAGACATACAAGAGGTGTGTTCGTGCTAGGGTTCTTGGGTTTTCTC GCAACGCAGGTTCTGCAATGGGCGCGCGTCGGTGACGCTGACCGCCCAGTCCCGGACTTC ATTGGCTGGGATAGTGCAGCAACAGCAACAGCTGTTGGACGTGGTCAAGAAACAACAAGAAA TGTTGCGACTGACCGTCTGGGGAACTAAAAATCTCCAGACAAGAGTCACTGCTATAGAGAAA TACCTAAAGGACCAGGCGCAGTTAAATTCATGGGGATGTGCGTTTAGACAAGTCTGCCACAC TTCTGTACCATGGGTAAATGATAGCTTGACACCTGATTGGAACAATATGACGTGGCAGGAAT GGGAACAGAAAGTCCGCTACTGGGAGGCAAATATCAGTCAAAGTCTAGAACAAGCACAAATT CAGCAAGAAAAGAATTTGTATGAGCTGCAAAAATTAAATAGCTGGGGTGTTTTTACCAATTG GCTTGACTTCACCTCCTGGGTCAGGTATATTCAATATGGAGTTTATGTAGTAGTAGGAATAG TAACTTTAAGAATAGTAATATATAGTACAGATGTTAAGTAGACTTAGGAAGGGCTATAGG CCTGTTTTCTCCTCCCCCCCGGTTATATCCAACAGATCCATATCCACAAGGACCAGGAACA GCCAGCCAGAGAAGAACAGAAGAAGACGTTGGAAGCAACGGTGGAGACAGATCTTGGCTTT AGCCGATAGCATATATTCATTTCCTGATCCGCCTGCTGATTCGCCTCTTGATCGGGCTATAC CCAGAGAGCACTAACAGCAATCAGAGACTGGCTGAGGCTTAAAGCAGCCTACCTGCAGTATG GGTGCGAGTGGATCCAAGAGCGTTCCAAGCCCTTGCAAGGACTACAAGAGAGACTCTTGCA GGCGCGGGG

FIG. 24C

MKGSKNQLLIAIILASAYLTHCKQFVTVFYGIPAWRNASIPLFCATKNRDTWGTIQCLPDND DYQEIALNVTEAFDAWNNTVTEQAVEDVWNLFETSIKPCVKLTPLCVAMNCTRNMTTSTGTT DTQNITIINDTSPCVRADNCTGLKEEEMVDCQFNMTGLERDKRKQYTGAWYSKDVICDNNTS SRSKCYMNHCNTSVITESCDKHYWDAMRFRYCAPPGFALLRCNDTNYSGFAPNCSKVVAATC TRMMETQSSTWFGFNGTRAENRTYIYWHGKNNRTIISLNNFYNLTMHCKRPGNKGAGKPRQA WCWFKGEWKEAMQEVKETLAKHPRYKGNRSRTENIKFKAPGRGSDPEAAYMWTNCRGEFLYC NMAWFLNWVDNRTGQKQRNYAPCHIRQIINTWHRVGKNIYLPPREGELTCNSTVTSIIANID TGDQTDITFSAEVAELYRLELGDYKLVEITPIGFAPTSVKRYSSAHQRHTR

FIG. 24D

TTGCAAGCAATTTGTGACTGTTTTCTATGGCATACCCGCGTGGAGGAATGCATCCATTCCCC TGTTTTGTGCAACCAAAAATAGAGATACTTGGGGAACCATACAGTGCTTGCCAGACAATGAT GATTATCAGGAAATAGCTCTAAATGTAACAGAGGCTTTCGATGCATGGAATAATACAGTAAC AGAACAAGCAGTGGAGGATGTCTGGAATCTATTTGAGACATCAATAAAACCATGTGTCAAAT TAACACCCTTATGTGTAGCAATGAACTGTACAAGGAACATGACCACATCCACAGGGACCACA GACACCCAAAATATCACAATTATAAATGACACTTCGCCATGCGTACGTGCAGACAACTGCAC AGAGAAAACAGTATACTGGAGCATGGTACTCAAAAGATGTGATTTGTGACAATAACACCTCA AGTCGGAGCAAGTGTTACATGAACCATTGCAATACATCAGTCATCACAGAGTCATGTGATAA GCACTATTGGGATGCTATGAGGTTTAGATACTGTGCACCACCGGGTTTTGCCCTACTAAGAT GCAATGATACTAATTATTCAGGCTTTGCACCTAATTGCTCTAAAGTAGCTGCTACATGC ACCAGAATGATGGAAACGCAATCTTCTACATGGTTTGGATTTAATGGCACTAGAGCAGAAAA TAGAACATATATCTATTGGCATGGTAAAAATAACAGAACTATTATCAGCTTAAATAACTTTT ATAATCTCACTATGCATTGTAAGAGGCCGGGAAATAAGGGTGCCGGCAAACCCAGGCAAGCA TGGTGTTGGTTCAAAGGCGAATGGAAGGAAGCCATGCAGGAGGTGAAGGAGACCCTTGCGAA ACATCCCAGATATAAAGGGAACAGGAGCCGCACAGAGAATATTAAATTTAAAGCACCAGGAA GAGGCTCAGACCCAGAAGCAGCATACATGTGGACTAACTGCAGAGGGGAATTTCTCTACTGC AACATGGCTTGGTTCCTCAATTGGGTAGATAACAGGACGGGTCAGAAACAGCGCAATTATGC ACCGTGCCATATAAGGCAAATAATTAATACTTGGCACAGGGTAGGGAAAAACATATATTTGC CTCCCAGGGAAGGGGAGTTGACCTGCAACTCAACAGTGACCAGCATAATTGCCAACATTGAT ACGGGAGATCAAACAGATATTACCTTTAGTGCAGAGGTGGCAGAACTATACCGATTGGAATT GGGAGATTACAAATTAGTAGAAATCACACCAATTGGCTTCGCACCTACATCAGTAAAGAGAT ACTCCTCTGCTCACCAGAGACATACAAGA

FIG. 24E

GVFVLGFLGFLATAGSAMGAASVTLTAQSRTSLAGIVQQQQQLLDVVKKQQEMLRLTVWGTK NLQTRVTAIEKYLKDQAQLNSWGCAFRQVCHTSVPWVNDSLTPDWNNMTWQEWEQKVRYWEA NISQSLEQAQIQQEKNLYELQKLNSWGVFTNWLDFTSWVRYIQYGVYVVVGIVTLRIVIYIV QMLSRLRKGYRPVFSSPPGYIQQIHIHKDQEQPAREETEEDVGSNGGDRSWL

FIG. 24F